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(54) **MASS-TRANSFER APPARATUS**

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(57) **ABSTRACT**

An apparatus for mass transfer between a liquid and a gas inside a rotor having a packing. The liquid is introduced at a center of the rotor and driven outward through the packing by centrifugal force generated by rotation of the rotor, and the gas surrounding the rotor is forced inward through the rotor by a pressure of the gas, counter to the liquid flow in the rotor. The packing inside the rotor is divided into individual packing segments that together form a circular disk. Each circular ring segment is formed by at least one structured packing comprised of a plurality of superimposed woven, knitted, mesh or lattice structured surfaces composed of metal, in particular sheet-metal strips, or plastic or glass fibers, to which the axis of rotation of the rotor runs perpendicular.